## LISTING OF THE CLAIMS:

Please amend claims 1 and 38, and add new claims 39-40 as follows. A complete listing of the claims with proper claims identifiers follows for the convenience of the Examiner.

## 1-27. (Canceled)

- 28. (Currently amended) A method of preparing and using a coil spring in a pressure relief valve comprising:
  - a) measuring the spring rate of the coil spring;
- b) modifying the spring after measuring its spring rate so as to modify its spring rate to be within  $\pm 2\%$  of a target spring rate; and
- c) building a pressure relief valve having an inlet <u>comprising an inlet</u> <u>valve seat</u>, a disk member closable on the inlet <u>valve seat</u> and a mechanism biasing the disk member on the inlet <u>valve seat</u>, a body, and an outlet, wherein the disk member and inlet <u>valve seat</u> are configured to provide a huddling chamber, with the modified coil spring being used in the biasing mechanism.
- 29. (Withdrawn) The method of claim 28 wherein the spring rate is modified by having one or more disk springs stacked in series with the coil spring.
- 30. (Withdrawn) The method of claim 28 wherein the spring rate is modified by shorting out a portion of the coils of the spring.
- 31. (Original) The method of claim 28 wherein the spring rate is modified by having a portion of the surface of the spring removed.
- 32. (Withdrawn) The method of claim 31 wherein the spring has material removed from its inside diameter.
- 33. (Original) The method of claim 31 wherein the spring has material removed from its outside diameter.
- 34. (Withdrawn) The method of claim 28 wherein the spring rate is modified by mechanically enlarging the internal diameter of the spring.

35-36. (Canceled)

- 37. (Previously presented) The method of claim 28 wherein the outlet is located in the body radially of the huddling chamber.
- 38. (Currently amended) The method of claim 28 wherein the relief valve further comprises a secondary orifice between the inlet <u>valve seat</u> and the outlet, the <u>secondary orifice being sized inlet being configured</u> so that gas flows from the inlet <u>valve seat</u> in a sonic flow <u>when the valve opens due to a pressure in the inlet exceeding the set pressure</u> and <u>the secondary orifice being sized</u> so that gas flows through the secondary orifice in a sonic flow when the valve opens due to a pressure in the inlet exceeding a the set pressure.
- 39. (New) The method of claim 28 wherein the spring is built into a valve having a blow-down value of less than about 10%.
- 40. (New) The method of claim 28 wherein the spring is built into a valve having a blow-down value of less than about 5%.